

Title (en)
TWIN-CYLINDER PUMP, IN PARTICULAR FOR PUMPING THICK LIQUIDS

Publication
EP 0022851 B1 19830209 (DE)

Application
EP 80900342 A 19800815

Priority
DE 2903749 A 19790201

Abstract (en)
[origin: WO8001594A1] The thick liquid pumps, in particular concrete pump comprise two cylinders leading to a chamber (1) and which suck alternately the product to be pumped from the chamber (1) and discharge the product into a discharge conduit through an S-shaped pipe (5) pivoting in the chamber (1). In order to achieve a sealing joint between a wear ring (20) supported by the pivoting pipe (5) and the backward wall (64) of the chamber (1) comprising the ports of the cylinders (2) and optionally reinforced by a pressure plate (22) and in order to ensure a uniform wearing on all the wearing ring surface (20), the bearing is arranged so that the pressure of the product to be pumped is converted into an axial force acting on the axially displaceable pivoting pipe (5). Hence, the bearing pressure of the wear ring (20) is increased. The wear ring (20) may rotate on the extremity of the pivoting pipe (5) which allows a very regular wearing of all the ring surface (20).

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